



AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A touch sensor ~~(20)~~, comprising:
 - a display device ~~40~~ having ~~[[a]]~~ at least one substrate ~~(14, 15)~~ on which ~~substrate~~ at least one display electrode ~~(11)~~ is disposed for the display of a shape on the display device ~~(10)~~;
 - an interface (21) coupled to the at least one display electrode (11) for receiving display data to the display device ~~(10)~~;
 - a measuring circuit ~~(25, 27)~~ coupled to the at least one display electrode ~~(11)~~; and
 - switching means ~~(22)~~ for connecting the interface ~~(24)~~ to the at least one display electrode ~~(11)~~ when the switching means is in a first state of operation and for connecting the measuring circuit ~~(25, 27)~~ to the at least one display electrode when the switching means in is a second state of operation.
2. (Currently amended) A touch sensor ~~(20)~~ according to claim 1, wherein the measuring circuit ~~(25, 27)~~ ~~[[is]]~~ comprises a capacitance measuring circuit.
3. (Currently amended) A touch sensor ~~(2)~~ according to claim 1, wherein the measuring circuit ~~(25, 27)~~ ~~[[is]]~~ comprises a resistance measuring circuit.
4. (Currently amended) A touch sensor ~~(2)~~ according to ~~any preceding~~ claim 1, wherein the measuring circuit ~~(25, 27)~~ comprises:
 - a signal generator ~~(25)~~ coupled to the at least one display electrode ~~(11)~~ for providing a predetermined test signal to the display electrode~~[[,]]~~; and

a signal evaluating circuit ~~(27)~~ coupled to the at least one display electrode for receiving the test signal from the signal generator.

- 5 (Currently amended) A touch sensor ~~(2)~~ according to claim 4, wherein the signal evaluation ~~circuitry~~ circuit ~~(27)~~ is ~~adapted~~ configured to detect a deviation in the test signal when the switching means ~~(22)~~ is in the second state of operation.
6. (Currently amended) A touch sensor ~~(20)~~ according to ~~any of claims 4 or 5~~ claim 4, wherein:
the display device comprises a front substrate having a plurality of segments; and
the signal generator ~~(25)~~ is ~~adapted~~ configured to apply the test signal to the segments (11) on ~~[[a]] the front substrate (14) of the display device.~~
7. (Currently amended) A touch sensor according to ~~any of claims 4 or 4~~ claim 4, wherein:
the display device comprises a back substrate having a plurality of segments; and
the signal generator ~~(25)~~ is ~~adapted~~ configured to apply the test signal to ~~the segments (11) on [[a]] the back substrate (14) of the display device (10).~~
8. (Currently amended) A touch sensor ~~(2)~~ according to ~~any preceding~~ claim 6, wherein the segments (11) on the front substrate ~~(14, 15)~~ which are not connected to the signal generator ~~(25)~~ are ~~left~~ retained in a high-ohmic state.

9. (Currently amended) A method for detecting a touch on a display device (10), said display device having a substrate (14, 15) on which ~~substrate~~ at least one display electrode (11) is disposed ~~for the display of a shape on the display device (10)~~, wherein said display electrode (11) is coupled to an interface (21) for receiving display data to the display device, comprising the steps of:
- disconnecting the at least one display electrode (11) from the interface (21);
 - connecting said display electrode (11) to a measuring circuit (25, 27); and
 - detecting a change in an electrical property of the display electrode (11) due to an electrical coupling ~~towards~~ with an object (17) touching the display device (1) in the vicinity of the display electrode.
10. (Currently amended) A method according to claim [[7]] 9, wherein detecting a change in an electrical property of the display electrode comprises ~~comprising the steps of:~~
- applying a predetermined test signal to the display electrode (11) and
 - detecting a deviation in the test signal due to an electrical coupling ~~towards~~ with an object (17) touching the display device 10 in the vicinity of the display electrode.
11. (Currently amended) A method according to claim 9 ~~or 10~~, wherein the electrical coupling [[is]] comprises a capacitive coupling.
12. (Currently amended) A method according to claim 9 ~~or 10~~, wherein the electrical coupling [[is]] comprises a galvanic coupling.
13. (New) A method according to claim 10, wherein the electrical coupling comprises a capacitive coupling.

14. (New) A method according to claim 10, wherein the electrical coupling comprises a galvanic coupling.
15. (New) A touch sensor according to claim 5, wherein:
the display device comprises a front substrate having a plurality of segments; and
the signal generator is adapted to apply the test signal to the segments on the front substrate.
16. (New) A touch sensor according to claim 5, wherein:
the display device comprises a back substrate having a plurality of segments; and
the signal generator is adapted to apply the test signal to the segments on the back substrate.
17. (New) A touch sensor according to claim 7, wherein the segments on the back substrate which are not connected to the signal generator are retained in a high-ohmic state.